

ABSTRACT

Insat 7 An image generating system and an information storage
medium enabling scissoring of a polygon in a three-dimensional
5 stage to prevent display failure of a polygon on a screen end
or at a short distance from the viewpoint with a reduced
computation load. The system performs scissoring processing for
a polygon in a three-dimensional stage and generates an image
of an object including a new vertex generated by the scissoring.
10 A polygon which is at a short distance from a view point,
displaying of which is likely to be missed, is scissored on side
surfaces of a quadrangular pyramid forming a view volume, to
prevent the display failure of the polygon existing at a short
distance from the end of a screen. A polygon arranged in the
15 three-dimensional space is subjected to coordinate
transformation into a screen coordinate system, to detect an
undrawable vertex, and a polygon containing the detected vertex
is scissored at a portion containing the detected vertex, in
a predetermined plane.